CONVERSION OF MARTRAK DATA INTO THE WEB-ENABLED SAFETY SYSTEM (WESS)

CAPT C. Brassington

WESS Project Officer

Naval Safety

Web Enabled Safety System WESS

- **WESS Development**
- **WESS Databases**
- **MARTRAK & USMC Ground Data Conversion Plan**
- **Mishap Data Retrieval and Demo**

Objective of WESS - To provide a single, Department of the Navy, web-based source of mishap and safety hazard data, readily available on-line to all safety customers.

Web Enabled Safety System WESS

- **Three phases of WESS development:**
  - Non-aviation mishaps and hazards (5102) - complete
  - Aviation Hazard Reports (3750)- early 2005
  - Aviation Mishap Reports (3750) - Dec 2005.
- **Marine Corps Aviation partnership well established at NSC.**
- **Marine Corps Ground Database maintained at NSC since 1988.**
- **NSC assisted with maintenance/QA of MARTRAK since 2000.**
- **All phases of WESS developed for and with Navy and Marine Corps input.**
  - **Joint draft OPNAVINST 5102.1D/MCO P5102.1B, Mishap Investigation, Reporting and Record Keeping, used as the template for development of non-aviation phase of WESS.**

Web Enabled Safety System WESS

- **Web Enabled Safety System Application**
  - Designed to run in a browser environment.
  - No client software required (zero footprint).
  - DADMS, Task Force Web, NMCI approved.
  - Uses open-source Keel Meta-Framework JAVA application-development suite.
  - Uses some COTS applications, such as JINFONET JReport query tool.
  - Uses XML tags to transfer data.
- **NSC Developers**
  - Two contractors on-site and 2-3 temporary contractors.
  - In-house, trained staff of 14 for life-cycle management.

- **WESS Database**
  - New WESS consolidated database is used to collect all Navy data since 12 July 2004.
  - Maintain legacy databases for trending.
    - Navy INJTRAK and WESS 1 database from 2000 to 2004.
    - Navy Sea/Shore database from 1969 to 2004.
    - Navy Motor Vehicle, Explosives, and Diving databases from 1980 to 2004.
    - New MARTRAK/USMC Ground database from 1994 to 2004.
  - Matching data points converted and fed-back into legacy databases.
  - Source of data used in queries is transparent to users.

- **MOA for USMC conversion to WESS:**
  - Review WESS to ensure all MARTRAK data and recent enhancements are captured - make changes to WESS.
  - Transfer MARTRAK and USMC Ground data into a WESS legacy database.
  - Provide USMC unique pre-formatted and custom data reports.
  - Include USMC in all WESS and JReport training.
  - Add USMC to current WESS marketing plans.

Timeline based on date set to discontinue use of MARTRAK.

- **Timeline (time from designated cut-over date):**
  - NSC (Navy and USMC employees)
    - Develop MARTRAK legacy database in WESS - complete.
    - Convert and populate legacy database with MARTRAK 2.0 Access data - complete.
    - Complete USMC enhancements to WESS - by cut-over date.
  - Contractor support:
    - Complete USMC unique pre-formatted and custom reports - cut-over +30 days.
    - Convert and populate legacy database with MARTRAK web data - cut-over +45 days.
    - Convert and populate legacy database with USMC Ground data - cut-over +60 days.

- **Cost to complete project by cut-over +60 days:**
  - WESS already built to serve USMC needs.
  - Only costs are associated with data conversion - 3 sources, various formats, one-time project.
  - Using contactor support to minimize unavailability of data.
  - Estimated 160 hours ($25K) for initial conversion, with possibility of additional 80-160 hours for USMC unique reports.
  - DASN(S) provided $25K, NSC will provide $12.5K, and USMC has provided $12.5K to cover entire project.
- **NSC maintains WESS in future.**

- **USMC data available through WESS:**
  - USMC ground and MARTRAK data 1988 through 2004.
    - Pre-formatted reports, injury logs, civilian OSH reports, and summaries.
    - Custom reports for customers to design as needed.
    - Ad hoc, full database JReport Analysis queries.
  - Data available on-line.
    - Any user with an account can get pre-formatted and custom reports.
    - Designated users can have full database access for analysis and detailed queries (includes privacy and privileged data - more restricted)
  - COTS JReport tool provides extensive capabilities for queries and analysis - demo.